

Serial No. 10/619,341

Case No. 9281-4603

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February 23, 2006

Date of Deposit

Anthony P. Curtis, Ph.D., Reg. No. 46,193

Name of applicant, assignee or  
Registered Representative

Signature

2/23/06  
Date of Signature

Our Case No. 9281-4603

Client Ref. No. N US02004

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Naoya Hasegawa et al.

Serial No. 10/619,341

Filing Date: July 14, 2003

For: MAGNETIC SENSOR WITH SECOND  
ANTIFERROMAGNETIC LAYER  
HAVING SMALLER DEPTH IN HEIGHT  
DIRECTION THAN FREE LAYER

Examiner: Heinz, Allen J.

Group Art Unit No.: 2653

## FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, § 1.97 and § 1.98, it is respectfully requested that this First Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form PTO-1449 be considered by the Examiner and made of record.

02/28/2006 HTECKLU1 00000025 231925 10619341

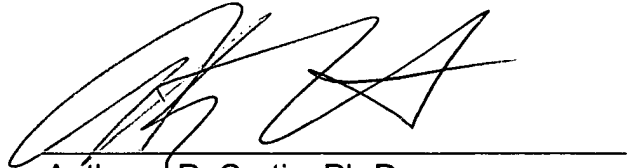
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As each of the listed references is in English, no further commentary is believed to be necessary, 37 C.F.R. §1.98(a)(3). Applicant respectfully requests the Examiner's consideration of the above references and entry thereof into the record of this application.

By submitting this Statement, Applicant is attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, constitutes "prior art" or is otherwise "material to patentability," as that phrase is defined in 37 C.F.R. §1.56(a).

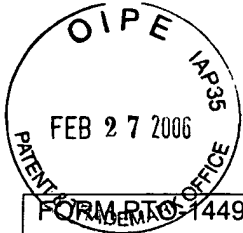
Applicant has calculated a processing fee in the amount of \$180.00 to be due under 37 C.F.R. §1.17(p) in connection with the filing of this Statement. Applicant has enclosed a check covering this fee, or authorized charging the fee to a deposit account or credit card, as indicated in the Transmittal accompanying this Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'AP Curtis', is written over a horizontal line.

Anthony P. Curtis, Ph.D.  
Registration No. 46,193  
Agent for Applicants

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FORM PTO-1449	SERIAL NO. 10/619,341	CASE NO. 9281-4603
<b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>	FILING DATE 07/14/2003	ART UNIT 2653
(use several sheets if necessary)	APPLICANTS: Naoya HASEGAWA, et al.	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	B1	US 6,716,537 B1	04/06/2004	Kakihara		
	B2	US 6,913,836 B1	07/05/2005	Hasegawa		

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO

EXAMINER INITIAL	<b>OTHER ART – NON PATENT LITERATURE DOCUMENTS</b> (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

02/23/2006